SCOSCHE® **S3-1**

MULTI-PLATFORM STEREO REPLACEMENT WITH STEERING WHEEL CONTROL INTERFACE FOR CHRYSLER, GM, FORD & TOYOTA JBL

The cutting edge **S3-1** interface from Scosche allows you to replace your factory OEM stereo while retaining all necessary safety & warning features as well as retaining your original steering wheels controls (if vehicle is equipped).

STEERING WHEEL CONTROLS

NO Steering wheel programming is required! The **S3-1** Interface has built-in protocols for popular aftermarket stereos including:

ALPINE	**CLARION**	**JVC**
KENWOOD	**PIONEER**	**SONY**

S3-1 INSTALLATION HARNESSES*

*A vehicle-specific harness is required for installing the **S3-1** interface (*sold separately). Verify your vehicle's compatability by checking the list included with vehicle-specific harness.*

S3CR02	2005-10 Select Chrysler S3-1 harness
S3CR04	2007-UP Select Chrysler S3-1 harness
S3FD23	2005-UP Select Ford, Linc, Merc S3-1 harness
S3GMCL2	2003-UP Select GM Class II S3-1 harness
S3GM11C	2004-UP Select GM LAN11 24Pin S3-1 harness
S3GM11L	2006-UP Select GM LAN11 14/16Pin S3-1 harness
S3GMLAN	2006-UP Select GM LAN29 14/16 Pin S3-1 harness
S3TA03	2004-UP Select Toyota JBL S3-1 harness

TECH SUPPORT: If you have any questions or need Technical Assistance with the installation, or the most current applications, please call **1-800-621-3695x3**

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PRELIMINARY

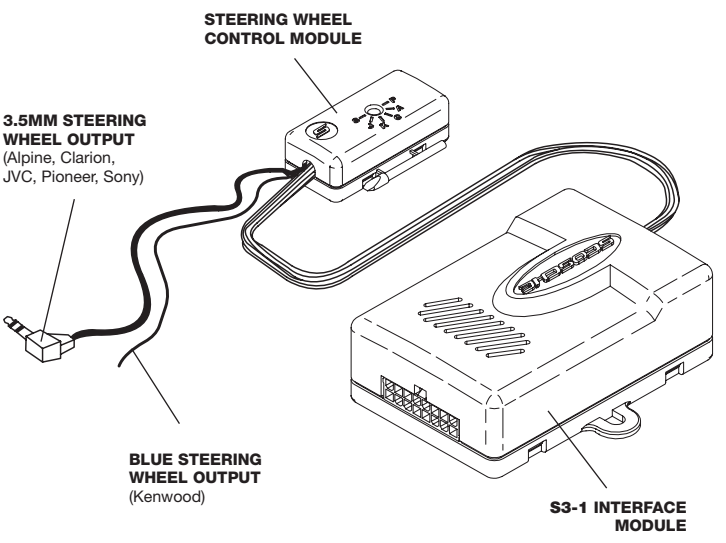
S3-1 FUNCTIONALITY BY VEHICLE PLATFORM:

Make	ACC/R.A.P. Power	Steering Wheel Controls	Warning Chimes	Premium Sound Activation	Fade F/R
Chrysler	✓	✓	Not required	✓	No
Ford	✓	✓	Not required	✓	No
GM LAN	✓	✓	✓	Std. Bose only	✓
GM Class II	✓	✓	✓	Std. Bose only	✓
Toyota	Not required	✓	Not required	JBL Sys only	No

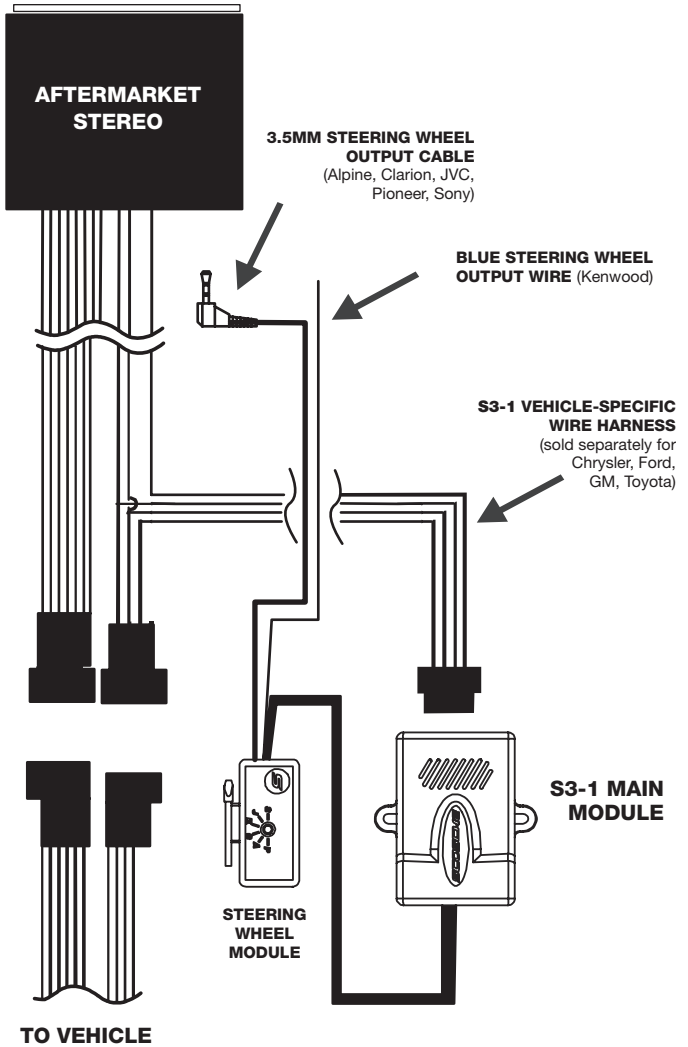
! *BEFORE BEGINNING: READ THIS INSTRUCTION MANUAL*

Disconnect the negative battery terminal to avoid short circuits. Read ALL vehicle manufacturer's warnings regarding airbags and electrical systems. We recommend ONLY a volt/ohm meter when checking/testing vehicle wiring. A test light (grounded probe type) can damage a vehicle's computer and/or electronics systems.

COMPONENT OVERVIEW



INSTALLATION OVERVIEW


AFTERMARKET STEREO
3.5MM STEERING WHEEL OUTPUT CABLE (Alpine, Clarion, JVC, Pioneer, Sony)
BLUE STEERING WHEEL OUTPUT WIRE (Kenwood)
S3-1 VEHICLE-SPECIFIC WIRE HARNESS (sold separately for Chrysler, Ford, GM, Toyota)
S3-1 MAIN MODULE
STEERING WHEEL MODULE
TO VEHICLE

WIRE COLOR CODES

White = Left Front Positive (LF+)
White/Black = Left Front Negative (LF-)
Green = Left Rear Positive (LR+)
Green/Black = Left Rear Negative (LR-)
Black = Chassis Ground
Yellow = +12V Constant Power
Red = +12V Accessory/R.A.P output
Blue = +12V Power Antenna
Gray = Right Front Positive (RF+)
Gray/Black = Right Front Negative (RF-)
Violet = Right Rear Positive (RR+)
Violet/Black = Right Rear Negative (RR-)
Orange = Illumination
Blue/White = +12 Remote Output (Amp, radio on signal)

NAVIGATION CONNECTIONS:

Violet/White = VSS Vehicle speed pulse signal
Red/White = Reverse light trigger (+12V when in reverse gear)
Yellow/Black = Parking brake trigger (-12V when park brake ON)
Orange/White = Auto illumination (Data controlled lighting output on some GM LAN applications with AUTO headlights enabeled)

NOTE: The RED Accessory output wire from the **S3-1** interface is rated at 10A Max output for most aftermarket head unit demands. We do NOT recommended connecting additional +12V switched accessories to this output source as it may cause damage to the **S3-1** module itself. If 10A output is not sufficient, then a relay is needed (Relay not included).

NOTE: Illumination & auto illumination outputs are designed for head unit connections only.

S3-1 SPEAKER / AUDIO CONNECTIONS

RCA LOW LEVEL

- **GM Bose** (Excludes Prem. Bose)
- **Ford Premium Sound**
- **Toyota JBL/Lexus**

SPEAKER WIRE (Cut-off RCAs)

- **Chrysle**r
- **Ford** (Non-Premium)**
- **GM Bose** (Non-Bose)

****ATTN:** All Ford Harness RCA cutting must be performed on vehicle side of the circuit board.

BASIC WIRING INSTRUCTIONS

The following steps are provided as a general guide. For specific information for your vehicle, consult the instructions supplied with your vehicle-specific **S3-1** harnness (sold separately).

1. Disconnect the negative battery cable from the battery to avoid short circuits.
2. Remove and unplug factory stereo. (If needed, call Scosche Toll-free Tech for assistance with radio removal: (800) 621-3695 Ext. 3)
3. Match and connect the Power/ground wires from the **S3-1** Vehicle specific harness to the wires provided with your stereo. The color codes on the Scosche harness are designed to match most aftermarket stereos.
    - Take note that some of the wires for your new stereo come from the **S3-1** interface box itself and not the vehicle connectors.

4a. The **S3-1** speaker connections are pre-terminated with RCA jacks for installations requiring Line input: Toyota JBL, GM Standard Bose and Ford Premium sound.

4b. If your vehicle does not have a Bose or Premium system, cut off the RCAs and wire the speaker leads directly to the speaker wires from the new stereo.

4c. All FORD harnesses must have RCAs cut on vehicle side of circuit board.

5. Tape any unused wiring to prevent short circuit.
7. Reconnect the negative battery cable**.
    ** For GM vehicles, alternate power up (initialization steps) are required. See General Motors specific notes section.
8. As you install your new stereo, place the **S3-1** module(s) and harnesses in the rear of the dash cavity behind the stereo.

OPTIONAL: Cable ties or double-sided tape can be used to secure the module, but are not included.

CHRYSLER & TOYOTA INSTALLATION NOTES

CHRYSLER: PREMIUM ALPINE, BOSTON & INFINITY SYSTEMS

These factory amplified sound systems are driven and digitally controlled by a single set of left/right input channels only. The aftermarket radio does not have the ability to control fade or balance adjustments on these types of systems. There is NO front/rear fader control. The balance and fader are set to center by interface control software.

TOYOTA JBL / LEXUS PREMIUM SYSTEMS

These factory amplified sound systems are driven and digitally controlled by a single set of left/right input channels only. The aftermarket radio does not have the ability to control fader on these types of systems. There is NO front/rear fader control. The fader is set to center by interface control software.

GENERAL MOTORS INSTALLATION NOTES

HOW TO TEST FOR “PREMIUM BOSE” SYSTEMS

There are two types of Bose systems available in some models of GM vehicles. The **S3-1** interface is not compatible with the Digital Premium BOSE (y91/z75 systems) To test for digital Bose systems, turn the factory radio volume up and down rapidly. If the sound system reacts immediately then the system is a Standard Bose, not a Premium Bose. If there’s a slight delay in the system as you turn it up and down quickly, then this vehicle may have Premium BOSE. **Note:** you may also check the service parts code sticker usually located in the glove box for “y91” or “z75” equipment codes.

S3-1 GENERAL MOTORS INTEGRATED SAFETY & WARNING CHIMES

When replacing the factory stereo in your GM vehicle, the **S3-1** interface will replace portions of your vehicle’s audible SAFETY and WARNING CHIME systems. If the stereo is removed without the proper accessory these functions of your vehicle will be LOST including: Your vehicle’s ECM (Electronics Control Module) will also store an error code if operated without the factory radio installed and you may experience difficulty in having the vehicle serviced at the dealership. The Scosche **S3-1** will send the proper data commands to your vehicle’s ECM (Electronics Control Module) to indicate a “healthy” status for diagnostic purposes.

WARNING & SAFETY CHIMES LIST:

- Parking assist
- Lights left on reminder
- Turn signal click
- Low fuel
- Seatbelt warning chime
- Check engine/service indicator
- Key left in ignition reminder

POWER UP (Initialization procedure)

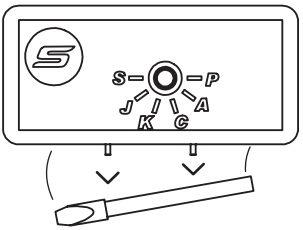
In order to ensure the proper functionality of the **S3-1**’s +12V RED Accessory wire, we recommend that the following procedure be followed; in sequence.

1. Disconnect the Scosche Interface from the vehicle radio harness.
2. Close all doors and hood, Turn off all lights and remove the keys from the ignition.
3. Wait 3 to 4 minutes (without opening a door, turning on a light, inserting keys,etc.).
4. Connect the Scosche Interface to the vehicle’s radio harness and start vehicle.
5. Test interface for functionality.

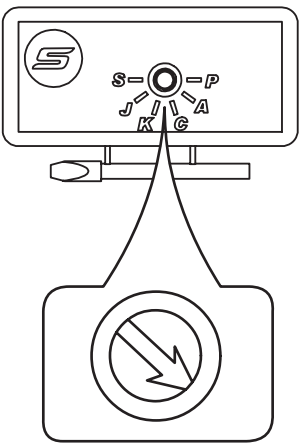
STEERING WHEEL MODULE SETUP

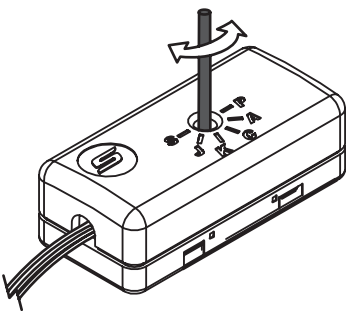
The Scosche **S3-1** offers “plug and play” steering wheel control setup. No complicated learning, programming or splicing wires is required. Setup can be completed in just seconds! (Tool is provided by Scosche.)

1. Break off the small flat blade adjustment driver from the side of the steering wheel module housing as shown in illustration.



2. Carefully click the selector (arrow) dial to the correct letter that corresponds with the brand of aftermarket stereo you are installing:
   A=ALPINE, C=CLARION, J=JVC,
   K=KENWOOD, P=PIONEER, S=SONY



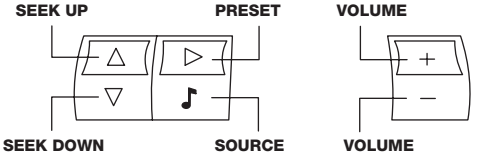


3. Connect the steering wheel control module harness to the Main **S3-1** interface via the 10-Pin connector. (This step not shown)

4. Plug the 3.5mm connector into the “Remote” jack on the back of your aftermarket stereo. For Kenwood, connect the Blue wire to the remote control input wire of the radio. (This step not shown)

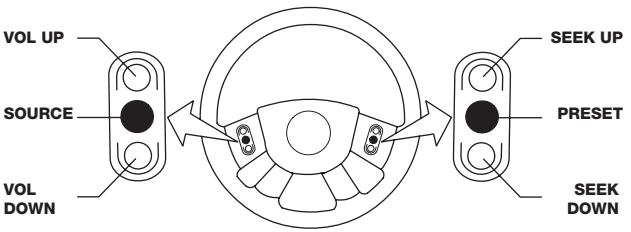
STEERING WHEEL CONTROLS: CHRYSLER

CHRYSLER / DODGE / JEEP Version 1
STEERING WHEEL LEGEND 2005-08



	S	J	K	C	A	P
	Sony	**JVC**	**Kenwood**	**Clarion**	**Alpine**	**Pioneer**
Vol Up +	Vol +	Vol +	Vol +	Vol +	Vol +	Vol +
Vol Down -	Vol -	Vol -	Vol -	Vol -	Vol -	Vol -
Source	Source	Source	Source	Source	Source	Source
Preset	FM Presets	FM Presets	Seek Up/Trk Up	FM Preset/Disc Trk 1	FM Presets	FM Presets
Seek Up	Seek Up/Track Up	Sk Up/Trk Up	Seek Up/Trk Up	FM Preset Up/Trk Up	Seek Up/Track Up	Seek Up/Track Up
Seek Down	Seek Dn/Track Dn	Sk Dn/Trk Dn	Seek Dn/Trk Dn	FM Preset Dn/Trk Dn	Seek Dn/Track Dn	Seek Dn/Track Dn

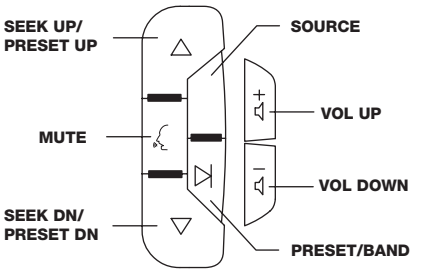
CHRYSLER / DODGE / JEEP Version 2
STEERING WHEEL LEGEND 2009-UP
(Uses controls on BACK of Steering wheel ONLY)



	S	J	K	C	A	P
	Sony	**JVC**	**Kenwood**	**Clarion**	**Alpine**	**Pioneer**
Vol Up +	Vol Up	Vol Up	Vol Up	Vol Up	Vol Up	Vol Up
Vol Down -	Vol Dwn	Vol Dwn	Vol Dwn	Vol Dwn	Vol Dwn	Vol Dwn
Source	Source	Source	Source	Source	Source	Source
Seek Up	Seek Up/Track Up	Sk Up/Trk Up	Seek Up/Trk Up	FM Preset Up/Trk Up	FM Presets	Seek Up/Track Up
Seek Down	Seek Dn/Track Dn	Sk Dn/Trk Dn	Seek Dn/Trk Dn	FM Preset Dn/Trk Dn	Seek Up/Track Up	Seek Dn/Track Dn
Preset	Next FM Preset	Preset Up	Seek Up/Trk Up	FM Preset /Disk Trk 1	Next FM Preset	Next FM Preset

Volume control note:
Press once: up/down (one increment); Press and hold: up/down (continuous)

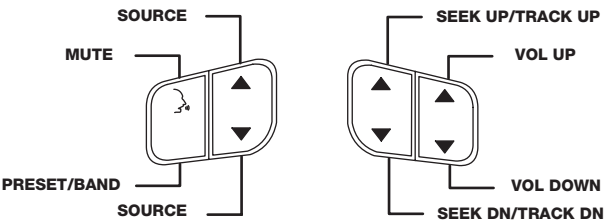
STEERING WHEEL CONTROLS: GM



GENERAL MOTORS LAN STEERING WHEEL LEGEND 2006-UP

	S	J	K	C	A	P
	Sony	**JVC**	**Kenwood**	**Clarion**	**Alpine**	**Pioneer**
Vol Up	Vol Up	Vol Up	Vol Up	Vol Up	Vol Up	Vol Up
Vol Down	Vol Down	Vol Down	Vol Down	Vol Down	Vol Down	Vol Down
Source	Source	Source	Source	Source	Source	Source
Speak Icon	Mute	Mute	Mute	Mute	Mute	Mute
Preset/Band	Preset Up	Band	Seek Up	Band	Preset Up	Preset Up
Seek Up	Seek/Track Up	Seek Up	Track Up	Preset/Track Up	Preset Up	Seek/Track Up
Seek Down	Seek/Track Dn	Seek Down	Track Down	Preset/Track Down	Seek/Track Down	Seek /Track Down

GENERAL MOTORS CLASS II STEERING WHEEL LEGEND

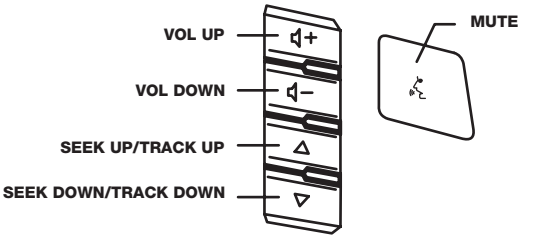


	S	J	K	C	A	P
	Sony	**JVC**	**Kenwood**	**Clarion**	**Alpine**	**Pioneer**
Vol Up +	Vol Up	Vol Up	Vol Up	Vol Up	Vol Up	Vol Up
Vol Down -	Vol Dwn	Vol Down	Vol Down	Vol Down	Vol Dwn	Vol Dwn
Source Up	Source	Source	Source	Source	Source	Source
Source Down	Source	Source	Source	Source	Source	Source
Seek Up	Seek/Track Up	Seek Up	Track Up	Preset/Track Up	Seek/Track Up	Seek/Track Up
Seek Down	Seek /Track Down	Seek Down	Track Down	Preset/Track Dn	Seek/Track Dn	Seek/Track Dn
Speak Icon	Mute	Mute	Mute	Mute	Mute	Mute
Program	Preset Up	Band	Seek Up	Band	Preset Up	Preset Up

Volume control note:
Press once: up/down (one increment); Press and hold: up/down (continuous)

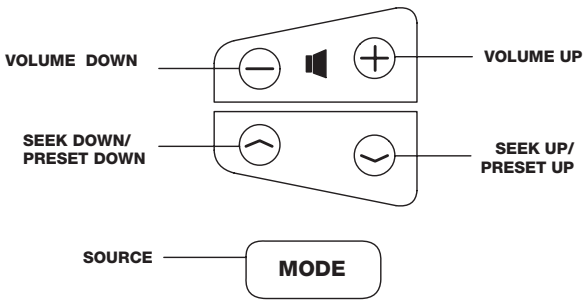
STEERING WHEEL CONTROLS: GM

GENERAL MOTORS GM LAN 11 BIT STEERING WHEEL LEGEND



	S Sony	J JVC	K Kenwood	C Clarion	A Alpine	P Pioneer
Vol Up+	Vol Up	Vol Up	Vol Up	Vol Up	Vol Up	Vol Up
Vol Down-	Vol Down	Vol Down	Vol Down	Vol Down	Vol Down	Vol Down
Seek Up	Seek/Track Up	Seek/Trk Up	Seek/Trk Up	Seek/Track Up	Seek/Track Up	Seek/Track Up
Seek Down	Seek/Track Down	Seek/Trk Dn	Seek/Trk Dn	Seek/Track Down	Seek/Track Down	Seek /Track Down
Speak Icon	Mute	Mute	Mute	Mute	Mute	Mute

TOYOTA STEERING WHEEL LEGEND

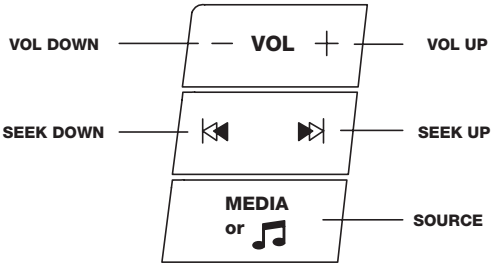


	S Sony	J JVC	K Kenwood	C Clarion	A Alpine	P Pioneer
Vol Up +	Vol +	Vol +	Vol +	Vol +	Vol +	Vol +
Vol Down -	Vol -	Vol -	Vol -	Vol -	Vol -	Vol -
Mode	Source	Source	Source	Source	Source	Source
Seek Up	FM Presets	FM Presets	Seek Up/Trk Up	FM Preset/Disk Trk 1	FM Presets	FM Presets
Seek Up	Seek Up/Track Up	Seek Up/Trk Up	Seek Up/Trk Up	FM Preset Up/Trk Up	Seek Up/Track Up	Seek Up/Track Up
Seek Down	Seek Dn/Track Dn	Seek Dn/Trk Dn	Seek Dn/Trk Dn	FM Preset Dn/Trk Dn	Seek Dn/Track Dn	Seek Dn/Track Dn

Volume control note:
Press once: up/down (one increment); Press and hold: up/down (continuous)

STEERING WHEEL CONTROLS

FORD STEERING WHEEL LEGEND



	S	J	K	C	A	P
	Sony	**JVC**	**Kenwood**	**Clarion**	**Alpine**	**Pioneer**
Vol Up+	Vol Up	Vol Up	Vol Up	Vol Up	Vol Up	Vol Up
Vol Down-	Vol Down	Vol Down	Vol Down	Vol Down	Vol Down	Vol Down
Media/Music Note	Source	Source	Source	Source	Source	Source
Seek Up	Seek Up/Track Up	Sk Up/Trk Up	Seek Up/Trk Up	FM Preset Up/Trk Up	Seek Up/Track Up	Seek Up/Track Up
Seek Down	Seek Dn/Track Dn	Sk Dn/Trk Dn	Seek Dn/Trk Dn	FM Preset Dn/Trk Dn	Seek Dn/Track Dn	Mute

Volume control note:
Press once: up/down (one increment); Press and hold: up/down (continuous)

STEERING WHEEL NOTES & TROUBLESHOOTING

STEERING WHEEL CONTROL NOTES & EXCEPTIONS

The illustrations of steering wheel controls and buttons in this manual are “typical”. The actual controls and placement of the controls varies between each make, model, trim level, and/or options package. The overall operation and characteristics are similar between makes. If you experience difficulty with operation or the information provided in this manual, please call our Toll-free Tech support line **(800) 621-3695 Ext. 3** or visit our website for other support options including “Live” chat and email: *www.scosche.com.*

For Volume UP/DOWN operation, pressing either button once will increase or decrease ONE small increment. Press and hold for continuous UP or DOWN volume adjustment.

For CD Seek UP/DOWN operation, pressing either button once will skip UP or DOWN tracks. Press and hold for manual track FWD/RR.

The radio seek UP/DOWN operation varies between stereo brands. In some cases pressing the seek UP/DOWN button once will skip UP or DOWN to the next strong radio station. In other cases, this button will select through Memory preset stations on the stereo. Consult the steering wheel control pages for your particular brand and configuration.

TROUBLESHOOTING

Stereo will not respond to Factory steering controls:

Verify vehicle compatibility. Check the S3-1 harness instruction for your particular vehicle listing.

Verify / Check installation:

1. Check connections at **S3-1** module, verify power, ground is present.
2. Check to determine if steering wheel control module is properly connected to main **S3-1** module.
3. Check to determine if steering wheel OUTPUT wire or 3.5mm cable is connected to the correct steering wheel INPUT at the back of the aftermarket stereo.
4. Check to determine that steering wheel selection potentiometer is set to matching brand of aftermarket radio i.e. A: Alpine, C: Clarion, J: JVC, K: Kenwood, P: Pioneer, S: Sony (see page 3)

LIMITED WARRANTY

Scosche Industries Inc. warrants this product to be free from defects in material and workmanship for a period of 90 days from purchase. This Scosche product is sold with the understanding that the purchaser has independently determined the suitability of this product. This warranty is offered to the original purchaser of the product only. This warranty does not cover the product if physically damaged, subject to negligence or misuse, abuse, alteration, accident, or an act of GOD. This warranty does not apply to product which has water or physically damaged by accident or which has been misused, disassembled or altered.

The original dated sales slip or proof of purchase will establish warranty eligibility. If the product should prove defective within the warranty period, return the product with proof of purchase to Scosche Industries Inc. Scosche, at its option, will replace or repair the product free of charge and return the product postage paid.

In no event shall Scosche Industries, Inc. be responsible for claims beyond the replacement value of the defective product, or in any way be liable or responsible for consequential or incidental damages. No empress warranties and no implied warranties, whether for fitness or any particular use or otherwise, except as set forth above (which is made expressly in lieu of all other warranties) shall apply to products sold by Scosche. Scosche Industries cannot be held responsible for discrepancies/inconsistencies that may occur due to automotive manufacturing changes or option.